

IN THE CLAIMS:

1. (Previously Presented) A data transforming system, comprising:

a plurality of receive interfaces configured to receive data;

a transformation module configured to transform the format of the received data into modified data having a different format that is recognizable by a target system, which cannot recognize the format of the received data; and

a transmit interface configured to send data to the target system;

wherein the modified data includes a first portion of data from a first receive interface and a second portion of data from a second receive interface, and is configured according to a predetermined format of the target system.
2. (Previously Presented) The data transforming system of claim 1, wherein the transformation module is configured to preprocess the received data and to provide optimized data to the target system, the optimized data comprising the first portion and second portions of data, wherein each of the first and second portions of data represents an automated selection of optimal data from corresponding portions of received data from the first and second receive interfaces.
3. (Previously Presented) The data transforming system of claim 1, wherein the first portion of data is received from a local source.
4. (Previously Presented) The data transforming system of claim 1, wherein the second portion of data is received from a remote source.

5. (Previously Presented) The data transforming system of claim 1, wherein the first and the second portion of data are received from a local source and a remote source, respectively.

6. (Original) The data transforming system of claim 1, configured to execute the transformation to generate emulated data recognizable by the target system.

7. (Previously Presented) The data transforming system of claim 1, the transformation module comprising:

at least one receive interface to receive the first and second received data;

a logic module to process the first and second receive data; and

at least one transmit interface to transmit optimized data.

8. (Previously Presented) The data transforming system of claim 1, further comprising a third interface configured to send data to a plurality of other data transforming systems.

9. (Previously Presented) The data transforming system of claim 1, wherein the target system is a combat system.

10. (Previously Presented) The data transforming system of claim 1, wherein the received data includes at least one track file.

11. (Previously Presented) The data transforming system of claim 3, further comprising an override module configured to provide operator-selected data in place of at least one track of the automated selection of optimal data.

12. (Previously Presented) The data transforming system of claim 3, further comprising logic configured to provide the first received data to the target system through bypass logic of the data transforming system.

13. (Previously Presented) The data transforming system of claim 1, wherein said data transforming system is a banking system.

14. (Previously Presented) An integrated plurality of data transforming systems and associated target systems, each data transforming system comprising:

a plurality of receive interfaces configured to receive data;

a transformation module configured to transform the format of the received data into modified data having a different format recognizable by a target system, which cannot recognize the format of the received data; and

a transmit interface configured to send data to the target system;

wherein the modified data includes a first portion of data from a first receive interface and a second portion of data from a second receive interface, and is configured according to a predetermined format of the target system.

15. (Previously Presented) The integrated plurality of data transforming systems and associated target systems of claim 14, wherein the transformation module of the data transforming systems is configured to preprocess the first and second portions of data and to provide optimized data to the target system, the optimized data comprising the first portion and second portions of data, and each of the first and second portions of data representing an automated selection of optimal data from corresponding portions of data from the first and second receive interfaces.

16. (Previously Presented) An integrated plurality of data transforming systems and associated target systems, each data transforming system comprising:

a plurality of receive interfaces configured to receive data;

a transformation module configured to transform the format of the received data into modified data having a different format recognizable by a target system, which cannot recognize the format of the received data; and

a transmit interface configured to send data to the target system; wherein the modified data comprising a first portion of data from a first receive interface and a second portion of data from a second receive interface, and is configured according to a predetermined format of the target system; and additional computer systems are integrated into the integrated plurality of data transforming systems.

17. (Previously Presented) The integrated plurality of data transforming systems, associated target systems and additional computer systems of claim 16, wherein the transformation module of the data transforming systems is configured to preprocess the first and

second portions of data and to provide optimized data to the target system, the optimized data comprising the first portion and second portions of data, and each of the first and second portions of data representing an automated selection of optimal data from corresponding portions of data from the first and second receive interfaces.

18. (Previously Presented) A method of generating and transmitting data derived from a first set of received local data and a second set of received remote data, comprising:

generating automatically optimized data from the first and the second sets of received data;

transforming the format of the optimized data into a different data format recognizable to a target system, which cannot recognize the format of the optimized data; and

providing the data recognizable to the target system to the target system.

19. (Previously Presented) The method of claim 18, wherein the signals comprise records.

20. (Previously Presented) The method of claim 18, wherein the received signals comprise local and remote signals.

21. (Previously Presented) The method of claim 18, wherein the signals comprise real-time signals.

22. (Original) The method of claim 18, wherein the transformation is performed by providing emulated data recognizable by the target system to the target system.

23. (Original) The method of claim 18, wherein the target system is a combat system.

24. (Previously Presented) The method of claim 18 wherein the first and second sets of received data comprise track files.

25. (Previously Presented) The method of claim 18 further comprising user selection of a least one piece of data.

26. (Previously Presented) The method of claim 18, further comprising providing the first set of received data to the target system bypassing the transformation module.

27. (Previously Presented) A system for integrating a plurality of computer-based systems, comprising:

means for receiving data from a plurality of interfaces;

means for transforming the format of the received data into optimized data having a different format; and

means for sending the optimized data to a target computer that can recognize the format of the optimized data, but not the received data.

28. (Original) The system of claim 27, wherein the means for receiving data are interfaces to sensors and networks.

29. (Original) The system of claim 27, wherein the means for receiving data are interfaces connected to other computer-based systems.

30. (Previously Presented) The system of claim 27, wherein the means for sending data are channels to a computer-based target system.

31. (Previously Presented) A method for integrating naval and maritime combat platforms, comprising:

implementing a common network interface on a plurality of naval combat systems, the network interface configured to:

- a. receive signals and messages including track data from a plurality of sources;
- b. optimize the signals and messages;
- c. generate a track file that includes the optimized signals and messages; and
- d. transforming the format of the signals and messages to a different format that a host combat system is configured to receive.